Army Transformation

TRADOC Perspective

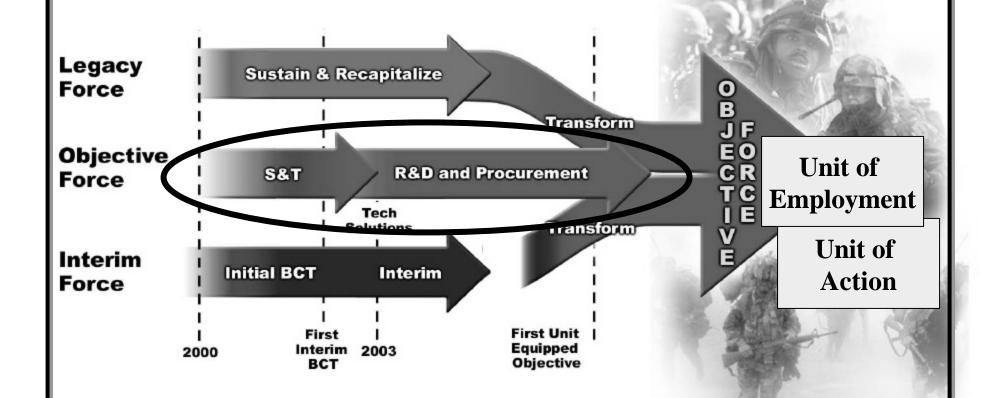
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The Army Transformation



. . . Responsive, Deployable, Agile, Versatile, Lethal, Survivable, Sustainable.

Purpose:

Information brief on Future Combat System Combat Battalion Operational and Organizational Concept

- Operational Environment
- The FCS Foundation
- Qualities of "First"
- How It Fights What's Different?

Why Transformation

Our studies lead us to the following conclusions:

- Reach block obsolescence around 2010
- Geography and weather play a significant role in future operations

Review of lessons learned during inter-war period prepares us for the future

The human dimension is the strategic driver for transformation

The Foundation of Army Transformation Nature and Conduct of War

Enduring Nature

- Political Activity by Other Means
- Violent Act of Compulsion
- Uncertainty and Risk are Constraints
- Multitude of Variables Places Premium on Creativity of Commander
- Brutal, Ugly, Destructive, Personal
 - **Human Dimension**



Changing Conduct

- Technologies and Capabilities Mandate Change
- Changes in methods—tactics, strategies
- Expanding Battlespace Non-linear, expanding reach
- Information and Information Superiority
- Increasingly Joint, Multinational and Interagency
- History is an incomplete guide

Better is Better

Bottom Line: Objective Force O&O Recognizes the Enduring <u>Nature of Warfare</u>. Accounts For Changing <u>Conduct of Warfare</u> by New Methods and Acknowledges The Human Dimension Across Both. Seeks To Adapt To Changing Conduct of Warfare Faster Than Adversaries.

Future Operational Environment Potential Adversaries Will Apply Lessons Learned From Our Successes

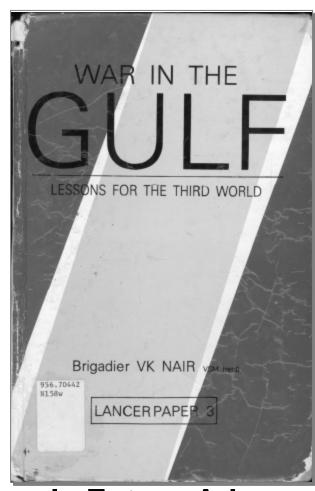
...Grenada

...Panama

...Haiti

...Bosnia

...Desert Storm



...Rwanda

....Somalia

....Kosovo

...Our Success Compels Future Adversaries To Change To Become More Powerful, More Sophisticated, More Dangerous

Future Operational Environment

Increasingly sophisticated opponents . . .



SASO

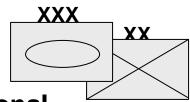
SSC

MTW

In all terrain sets



Tactics

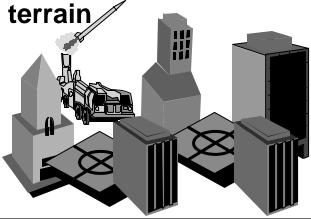




- Conventional + Unconventional
- Asymmetric, Adaptive

• Seek sanctuary in urban, complex

Expanded target set ranges from combined Arms formations to insurgents / guerrillas



Which requires... General purpose force complemented by special purpose forces

-Attacking US Vulnerabilities

The Paradigm

A Force Projection
Military Must Have
ACCESS
as its Cornerstone
in the Area of
Operations.

Threat Response

The Vulnerability

Access Requires
APODs and SPODs
Forward Bases (Air, Land and Sea)
Logistics Stockpiles
Secure LOCs
Long haul C2
Technical ISR

SOF/Terrorists
Precision Strike
Chemical & Biological
Theater Ballistic
Missiles
Air and Missile
Defenses Counter
Precision
Counter C4ISR

The Pattern

<u>Demands Military</u> <u>Strategy of:</u>

Entry Operations
Buildup of Capability
Air/Missile Campaign
Ground/Air Campaign
Transition Operations

Common View by Foreign Militaries of US Operations

Unit of Action and FCS





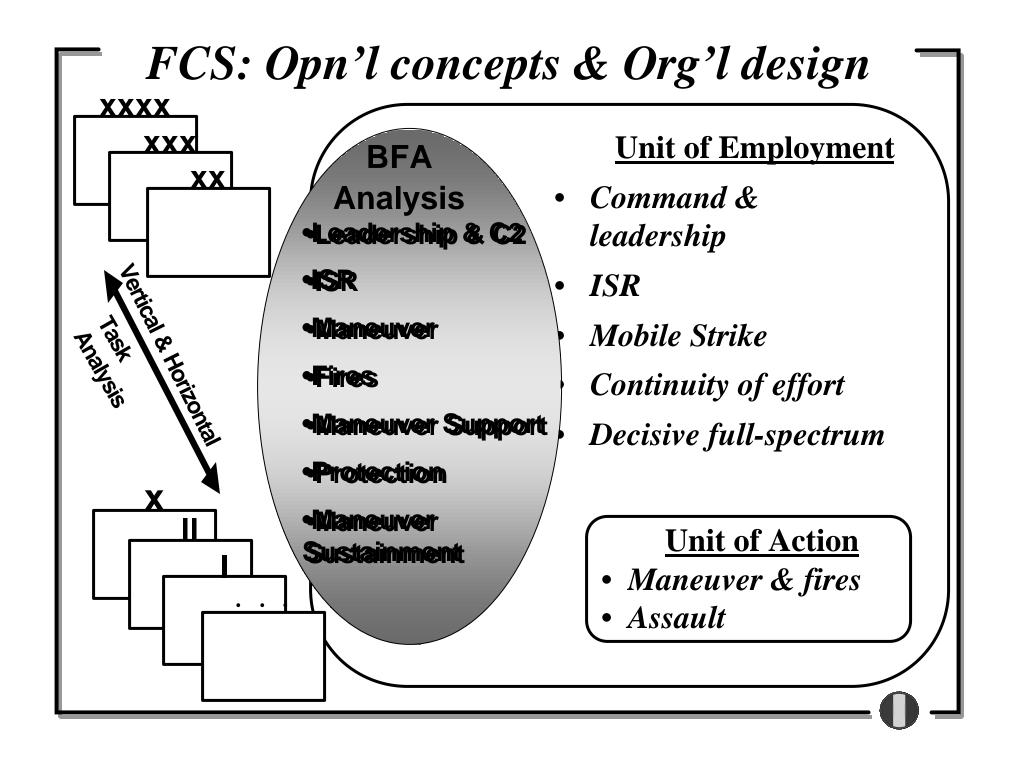
Build it around force effectiveness, not platform effectiveness...



... to enhance the human dimension

We are recruiting the objective force soldier today!





Close Combat

Needed: a Combat
System-of-Systems that
generates overmatching
Fire, Maneuver, & Assault
to destroy the enemy.

Extend tactical reach

Fire & Maneuver

Assault

Close Combat

Expected Outcome

S&T community develops

capabilities essential

to the Future Combat System

Close combat is combat carried out with direct fire weapons, supported by indirect fire, air-delivered fires, & non-lethal engagement means. Close combat defeats or destroys forces or seizes & retains ground. The range between combatants may vary between several thousand meters down to hand-to-hand combat. Close combat has one purpose—to decide the outcome of battles & engagements.



First - Shape the fight

- Develop situation out of contact
- Posture for success
- Set the enemy up for failure
- Create conditions for the Red

Zone fight

Then – Decisive tactical comba

- Engage first
- Maneuver to position of advantage
- Use tactical stand-off
- Organic BLOS, NLOS, & Army / Joint support



0 → 10-12 Km

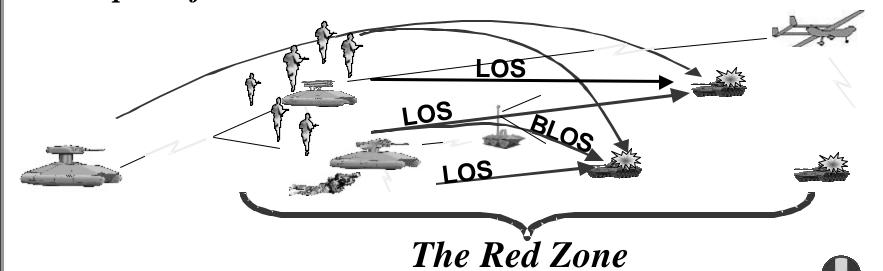
Unit of Action organic enablers enable tactical reach out to 20-25 Km

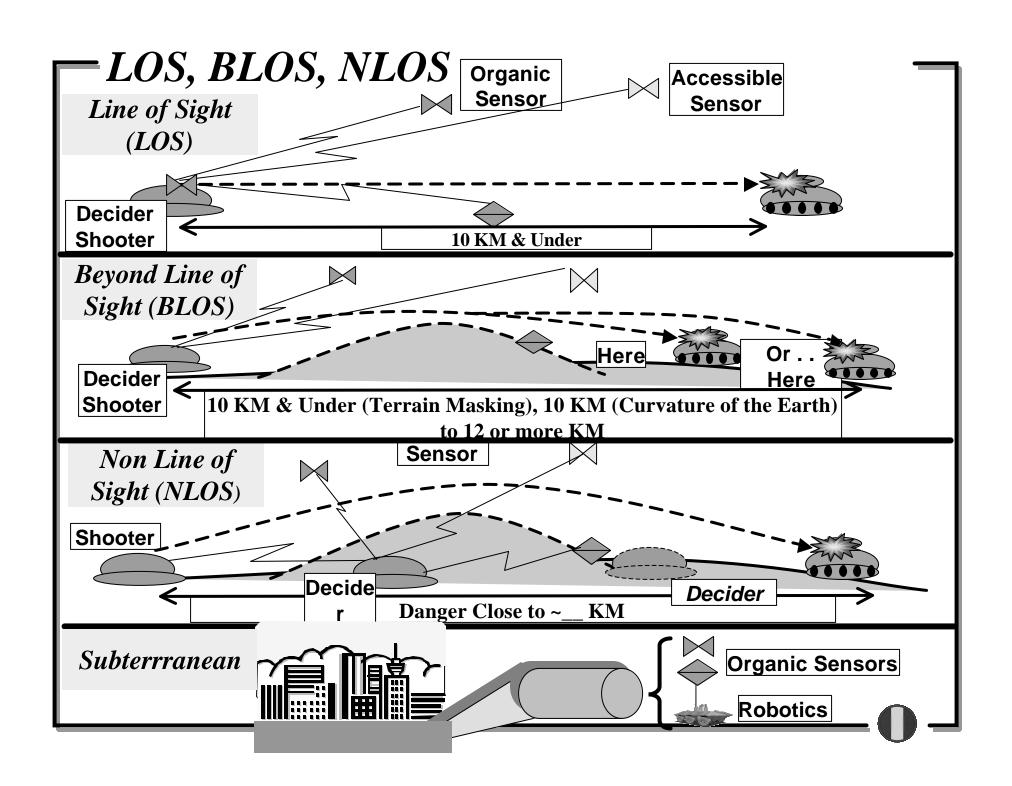
- Highly-reliable ISR network
- LOS / BLOS / NLOS fires

Operational Radius

The Red Zone

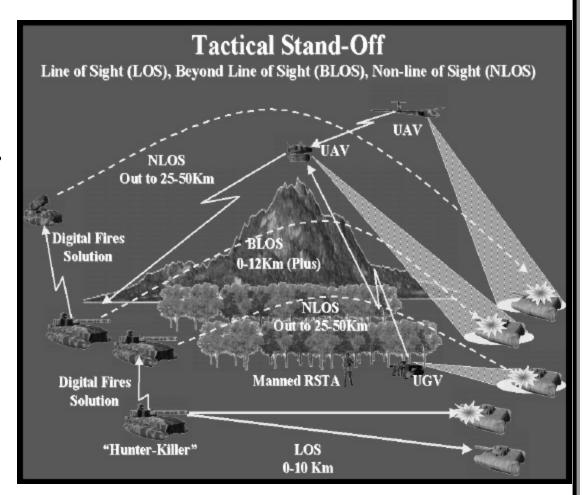
- The space where Combat battalions execute decisive combat
- A set of conditions & a temporal location
- Developed out of contact
- Possesses both linear & non-linear characteristics
- Red Zone fight can be waged using tactical stand-off supported by close combat assault; assault supported by tactical stand-off, or in balanced combination
- Principal defeat mechanism is destruction





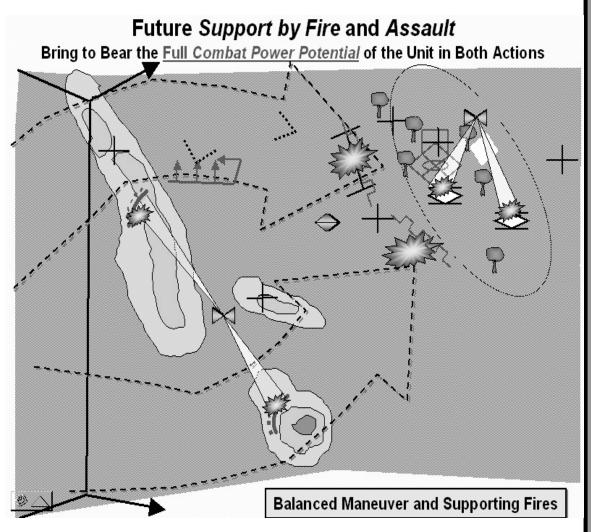
Close Combat – Fight from Tactical Stand-off

- Principal method for winning the Red Zone fight
- Engage enemy at distance with BLOS or NLOS fires
- Tactical stand-off using LOS, BLOS, & NLOS capabilities create dilemma for the enemy. Enemy finds no single focus for defense, counter action, or protection

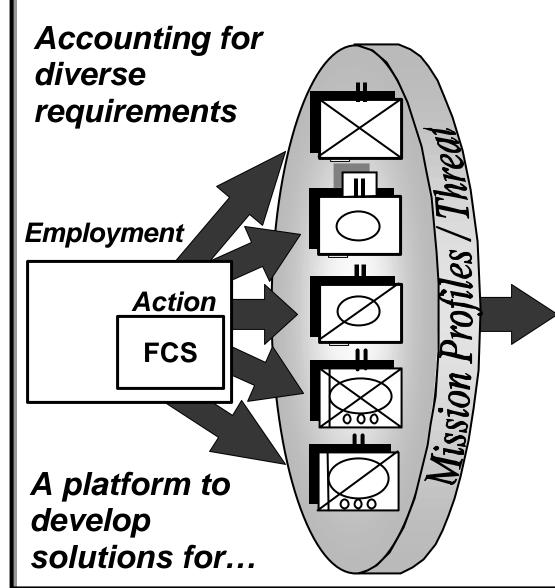


Close Combat – Execute Close Combat Assault

- Complements effects
 of tactical stand-off
 with overwhelming
 fires & tactical
 maneuver
- Assures enemy defeat or destruction
- Combat Battalion subordinate elements execute support-by-fire & assault tasks near simultaneously & employ fighting teams in mounted & dismounted actions



FCS Developmental Strategy Integrating New Concepts



New concepts – commonality in leader, materiel, small unit design – to advance our ability to close with and destroy an enemy through

- Fire and maneuver
- Tactical assault

FCS Combat Battalion Mission Profile

- Attack against prepared infantry defenses
- Counterattack against advancing mechanized force
- Rapid reposition by air to conduct hasty attack
- Overland forced entry to secure site 50 km from landing site
- Hasty defense against dismounted night attack
- Defend against mounted / dismounted attack
- Defend strongpoint against dismounted infantry
- Combat recon for division offensive operations
- Secure a zone to separate warring factions
- Rear area security operations for division / corps

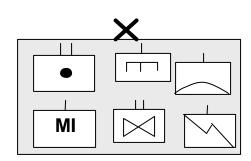
Mission set reflects examples of critical combat tasks across the spectrum of operations for analysis of the Combat Battalion

Building Combat Power Today



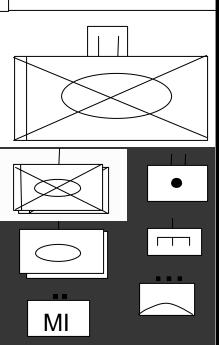
 $Cbt\ Power = (Mnvr + Firepower + Prot)(Ldrshp)$





Coordination & Task Organization Costs:

- New team dynamics ad hoc relationships
- C2 overhead
- Uncertain or untimely access to combat multipliers
- Unit cohesion



Building Combat Power Tomorrow

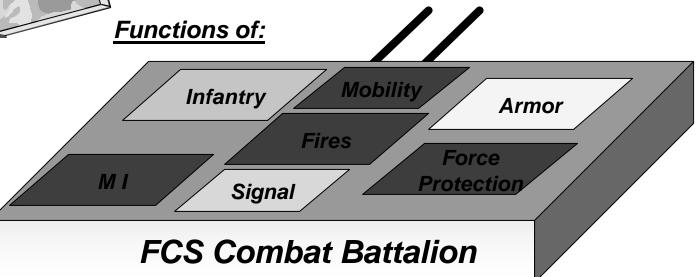
FCS Combat Battalion

Cbt Power = (Mnvr + Firepower + Prot)(Ldrshp)



Organic Fires
Organic Complementary
External Complementary
and Reinforcing

- See first
- Understand first
- Act first
- Finish Decisively



Leadership

FCS

- ... a system of systems...
- ... for a team of teams...
- ... Soldiers enabled by technology

With enhanced leaders to enable full spectrum capability

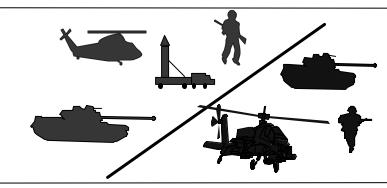


Leadership... the driver for full spectrum capability

See First The parts, the whole, the environment

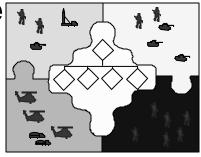
See the parts:

- Detect
- Identify
- Track



See the Whole (Recognize):

- Aggregate
- Fuse



See The Environment:

- Terrain

 Weather
 - Population

Force enemy to see last

Blind the enemy:

- Obscurants
- Jamming/counter-sensor
- Signature reduction
- Pattern avoidance
- Deception

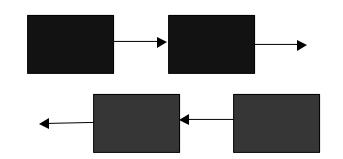


Understand First The Pattern, the Next Step

Understand: See the Pattern

Concept of operations

- Scheme of maneuver
- Centers of gravity
- Decisive points
- Vulnerabilities

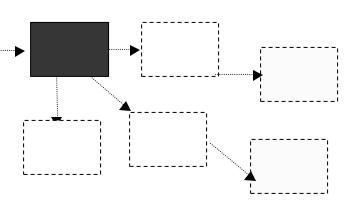


Understand: See the Next step

- Enemy intent
- Where enemy will go
- ID likely methods
- Reaction and counteraction

Force enemy to understand last

- Deception
- Pattern avoidance
- Irregular battlefield geometry



Act First

Platform:

- Shoot
- Move
- Reengage



- Determine options
- **Decide first**
- Act to force reaction
- Establish Red Zone

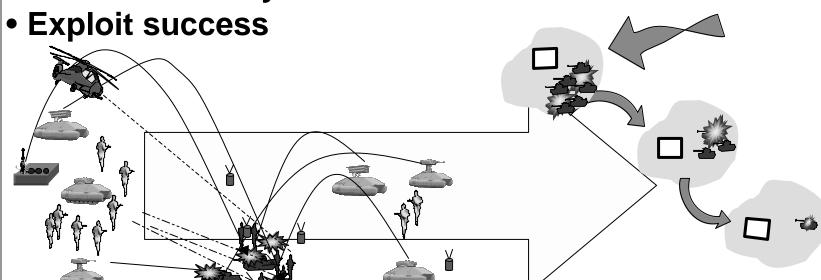
- Execute shape action
- Transition to Red Zone
- Transition to counteractions
 Synch fires and maneuver
 - Transition to assault

Force enemy to act last or wrong

- Remotely emplace obstacles
- Preemptive & Immediate counterfire
- Jam computers & wpns control
- Deceive

Finish Decisively

- Destroy enemy ability to synch fight
- Eliminate enemy freedom of action

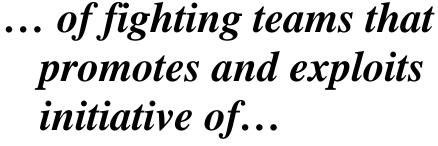


- Conduct close combat -- transition to assault
- Follow through to enemy destruction exploitation
 & pursuit
- No tactical pause
- Focus on "Profitable Fight"
- Block moves to sanctuary
- Mission Staging of mnvr sustainment
- Vertical Envelopment
- Disrupt communications
- Remotely placed obstacles
- Logistics efficiency

Unit of Action and FCS









...Soldiers, Units, Systems, and Leaders



Pursuit of Technology - Lethality

Mary of

Objective Force NET Fires in Support of Maneuver

- Instant clearance of fires
- Direct sensor to shooter linkage
- Enhanced BLUEFOR COP.

& increased lethality

NET Fires

- Indirect fires capability
- Modular multi-mission precision munitions
- Platform interdependent Manned / unmanned

A160 Robotic Helicopter

- 300 lb payload
- > 2500 NM Range
- 24 hour loiter time
- Integrated sensors / comms packages

RF Tagging

- "Passive" location and status reporting
- Reduced bandwidth
- Reduced detectability
- No power requirement

Responsive, accurate fires at tactical standoff.



-Actualizing Future Command and Leadership Combat Power = (Mobility + Firepower + Protection) (Leadership) Information

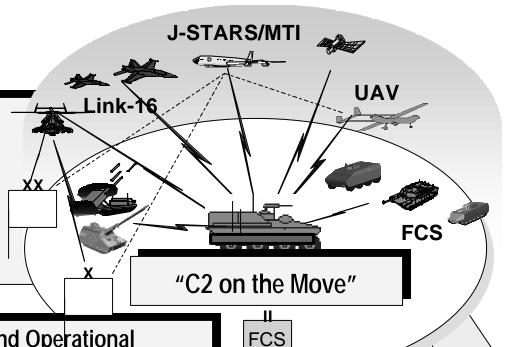
- ♦ Commander's are *Tethered* to CP's
- Current CP's are too Large and Immobile
- ♦ C2 "On The Move" is the Missing Link

Design C4ISR to:

- **♦** Enable C2 "On The Move" for Tactical and Operational Leaders
- ▶ Enable Information Dominance Across METT-T
- **▶** Force Effectiveness for Decisive Ops
- ▶ Rapid Sensor to Shooter Links
- **♦** Synchronize All Elements of Combat Power
- ▶ Empower Commander no matter where he is with Combat Information
- More Than Decision-Making and Targeting − IT'S ABOUT EMPOWERING ORGANIZATIONS THROUGH LEADERSHIP

C4ISR is:

Not About Knowledge – <u>IT'S ABOUT PROPER</u>
OUTCOME ON THE BATTLEFIELD



Summary

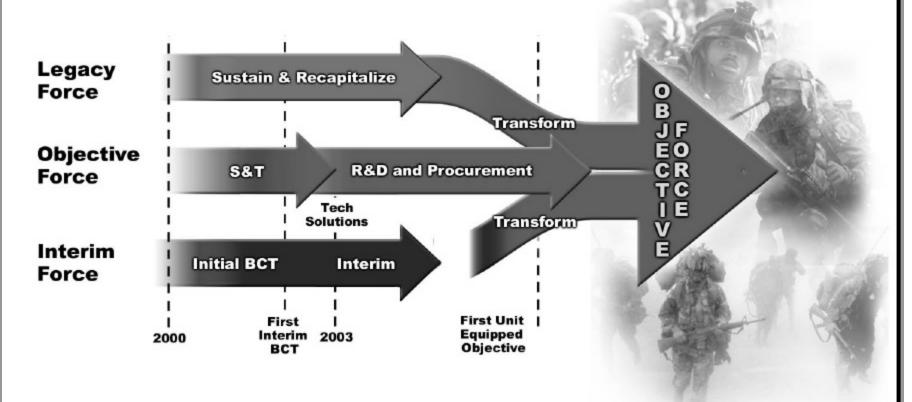
- Although the Nature of Warfare is Enduring, The Conduct is Changing
- Operational Environment and Operational Lessons Learned Point To the Needs for Army Transformation
- TRADOC is Framing Operational and Organizational (O&O) Concepts within context of the changing Operational Environment, Lessons Learned, Full Spectrum Operations, Joint Operations, and the Human Dimension
- O&Os provide the framework and context for Science and Technology
- S&T provides the means to achieve the Objective Force

Requires Tight Knit Partnership and Teamwork of Combat Developer, Science and Technology and Materiel Developer Communities.....

Including Industry to Make It Happen

Questions?

The Army Transformation



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